

⑫ 日本国特許庁 (JP)

⑩ 実用新案出願公開

⑫ 公開実用新案公報 (U)

昭58-88974

⑨ Int. Cl.²
B 26 B 21/22
21/40

識別記号

庁内整理番号
7041--3C
7041--3C

⑬ 公開 昭和58年(1983)6月16日

審査請求 未請求

(全 1 頁)

⑭ ひげかす排除板つき3枚刃

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⑮ 出 願 昭56(1981)12月9日

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⑰ 実用新案登録請求の範囲

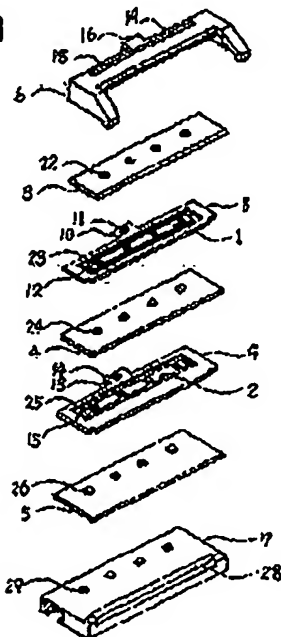
上スペーサー1を介して上刃体3と中刃体4を、
下スペーサー2を介して中刃体4と下刃体5とを、
刃受け板7と天板6との間に固定せしめる剃刀刃
において、プラスチック製天板6の後端部に切欠
溝18を形成し後端中央部の突板16から下向き
突起17を突設して、上中刃体間の形成間隙29
内と、中下刃体間の形成間隙30内に、それぞれ
上排除板8と下排除板9をそれぞれの切除内口
12、15が上スペーサー1、下スペーサー2に
遊嵌するように嵌押し、且つ上下排除板8、9の
後端中央部の突片10、13の中孔11、14に
突起17を嵌押しして成るひげかす排除板つき3板
刃。

図面の簡単な説明

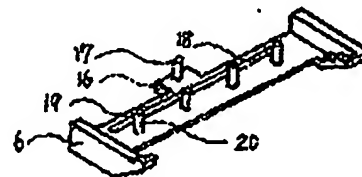
第1図は本考案の分解斜視図、第2図は天板6
の下面斜視図、第3図は組立完了時の断面図。

図中の番号1…上スペーサー、2…下スペー
サー、3…上刃体、4…中刃体、5…下刃体、6…
天板、7…刃受け台、8…上排除板、9…下排除
板、10…突片、11…中孔、12…切除内口、
13…突片、14…中孔、15…切除内口、16
…突板、17…突起、18…切欠溝、19…弓張
り部、20…貫通組立用脚部、21…超音波溶着
部、22、23、24、25、26、27…貫通
孔、28…かす取り口、29…上中刃体間の間隙、
30…中下刃体間の間隙。

第1図



第2図



第3図

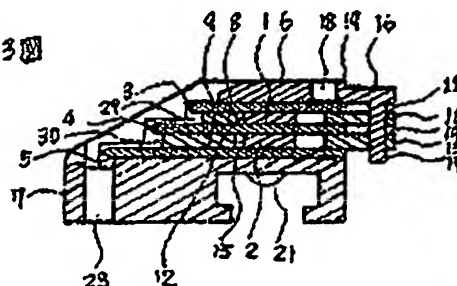
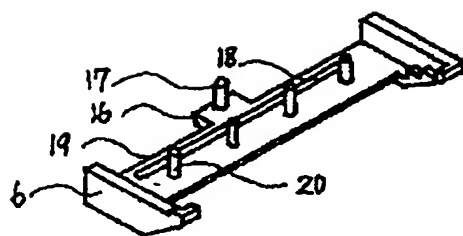


EXHIBIT
GILDER
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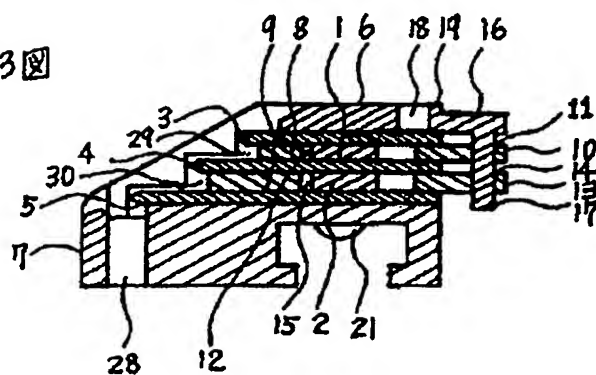
13 Jan 2005 AJS

面 図

第2図



第3図



761

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実58-88974

19 Japan Patent Office (JP)

11 Laid Open Utility Model

Application

12 Utility Model Application Laid Open Publication (U) **S58-88974**

51 Int. Cl.³ Filing ID No. JPO Ref. No. 43 Laid Open date:

16/6/1983

B 26 B 21/22

7041-3C

21/40

7041-3C

Request for Examination: Not requested

54 Triple-bladed razor with shavings removal plates

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1. Title of Invention

Triple-bladed razor with shavings removal plates

2. Scope of Claim for Utility Model Registration

In a razor wherein an upper blade 3 and a middle blade 4 are securely fixed through an upper spacer 1, and middle blade 4 and a lower blade 5 are securely fixed through a lower spacer 2 between a blade receiving plate 7 and a cap portion 6;

a triple-bladed razor with shavings removal plates wherein a cutaway groove 18 is formed at a rear end section of the plastic cap portion 6, and a post 17 protrudes downward from a protruding plate 16 positioned in the rear center of said cap portion 6,

an upper shavings removing plate 8 and lower shavings removing plate 9 respectively are press fit within a gap 29 formed between upper blade 3 and middle blade 4, and a gap 30 formed between middle blade 4 and lower blade 5 respectively so that respective internal openings 12 and 15 fit loosely around upper spacer 1 and lower spacer 2 respectively;

and further, post 17 is press fit through central holes 11 and 14 of protruding segments 10 and 13 positioned in the rear center of upper and lower shavings removal plates 8 and 9 respectively.

3. Detailed Description of the Invention

In a razor wherein an upper blade 3 and a middle blade 4 are securely fixed through an upper spacer 1, and middle blade 4 and a lower blade 5 are securely fixed through a lower spacer 2 between a blade receiving plate 7 and a

cap portion 6;

a triple-bladed razor with shavings removal plates wherein a cutaway groove 18 is formed at a rear end section of the plastic cap portion 6, and a post 17 protrudes downward from a protruding plate 16 positioned in the rear center of said cap portion 6,

an upper shavings removing plate 8 and lower shavings removing plate 9 respectively are press fit within a gap 29 formed between upper blade 3 and middle blade 4, and a gap 30 formed between middle blade 4 and lower blade 5 respectively so that respective internal openings 12 and 15 fit loosely around upper spacer 1 and lower spacer 2 respectively;

and further, post 17 is press fit through central holes 11 and 14 of protruding segments 10 and 13 positioned in the rear center of upper and lower shavings removal plates 8 and 9 respectively, wherein the aim of the invention is to provide a triple-bladed razor capable of adequately maintaining the cutting ability of the three blades while removing shavings accumulated in gap 29 formed between the upper blade and middle blade, and in gap 30 formed between the middle blade and lower blade.

Describing the figures of the invention, 20 are insert assembly posts which extend from the rear surface of cap portion 6; 22 are insert apertures of upper blade 3; 23 are insert apertures of upper spacer 1; 24 are insert apertures of center blade 4; 25 are insert apertures of lower spacer 2; 26 are insert apertures of lower blade 5; and 27 are insert apertures of blade receiving plate 7.

The above configuration enables the simple and effective removal of shavings which accumulate in gap 29 formed between the upper blade and middle blade, and in gap 30 formed between the middle blade and lower blade when shaving with the present razor.

This is achieved by pressing forward on protruding plate 16 positioned at the rear section of cap portion 6. The existence of cutaway groove 18 and the elasticity of cap portion 6 enable this rear section of cap portion 6 to bend inwards, thereby pressing forward on upper shavings removing plate 8 and lower shavings removing plate 9 connected via extending segment 10 and extending segment 13, thereby forcing the shavings outward to be removed.

Elasticity returns said rear section of cap portion 6 to its original position when pressure is released, simultaneously causing upper shavings removing plate 8 and lower shavings removing plate 9 to retract automatically, thereby delivering positive effects such as convenience of use.

Brief Description of the Drawings

Figure 1 is an exploded perspective view of the invention, Figure 2 is a perspective view of the under surface of cap portion 6 and Figure 3 is a cross-sectional view of the invention fully assembled.

Explanation of Figures:

- 1: upper spacer
- 2: lower spacer
- 3: upper blade
- 4: centre blade
- 5: lower blade
- 6: cap portion
- 7: blade receiving plate
- 8: upper shavings removing plate
- 9: lower shavings removing plate
- 10: extending segment
- 11: central hole
- 12: internal opening
- 13: extending segment
- 14: central hole
- 15: internal opening
- 16: protruding plate
- 17: post
- 18: cutaway groove
- 19: arched segment
- 20: insert assembly peg
- 21: ultrasonic-adhesion segment
- 22, 23, 24, 25, 26, 27: insert holes
- 28: shavings-removal opening
- 29: gap formed between upper blade and middle blade
- 30: gap formed between middle blade and lower blade

ひげかす排除板つき 3 板刃

上スパーサー 1	upper spacer 1
上スパーサー 1	upper blade 3
中刃体 4	Center blade 4
下スパーサー 2	Lower spacer 2
下刃体 5	Lower blade 5
刃受け板 7 <u>刃受け台 7</u>	Blade receiving plate 7
プラスチック製天板 6 <u>天台 6</u>	(plastic) cap portion 6
切欠溝 1 8	Cutaway groove 18
突板 1 6	extending plate 1
(下向き) 突起き 1 7	(downward-facing) post 17
上中刃体間の形成間隙 2 9	gap 29 formed between upper blade 3 and middle blade 4
下中刃体間の形成間隙 3 0	gap 30 formed between middle blade 4 and lower blade 5
上排除板 8	upper shavings removing plate 8
下排除板 9	lower shavings removing plate 9
切除内口 1 2	internal opening 12
切除内口 1 5	internal opening 15

(後端中央部の) 突片 1 0	extending segment 10 positioned in the center of upper stubble removing plate 8
(後端中央部の) 突片 1 3	extending segments 13 positioned in the center of lower stubble removing plate 9
中孔 1 1	central hole 11
中孔 1 4	central hole 14
かす取り口 2 8	Stubble-removal opening 28
超音波溶着部	ultrasonic welding
貫通組立用脚部 20	insert assembly post
貫通孔 22 , 23, 24, 25, 26, 27	insert holes 22, 23, 24, 25, 26, 27
遊嵌 ゆうかん	fit loosely

Claims

Name of the Invention: Triple-blade razor with stubble removal plate

2. Scope of Claim for Utility Model Registration

Insert above text

3. Detailed Description of the Invention

(insert scope of claim text: identical)...wherein the aim of the invention is to provide a triple-bladed razor capable of adequately maintaining the cutting ability of the three blades while removing shavings accumulated in gap 29 formed between the upper blade and middle blade, and in gap 30 formed between middle blade and lower blade.

Describing the figures of the invention, 20 is an insert assembly post which extends from the rear surface of cap portion 6; 22 are insert apertures of upper blade 3; 23 are insert apertures of upper spacer 1; 24 are insert apertures of center blade 4; 25 are insert apertures of lower spacer 2; 26 are insert apertures of lower blade 5; and 27 are insert apertures of blade receiving plate 7.

The above configuration enables the simple and effective removal of shavings which accumulate in gap 29 formed between the upper blade and middle blade, and in gap 30 formed between middle blade and lower blade when shaving with the subject razor.

This is achieved by pressing forward on protruding plate 16 positioned at the rear section of cap portion 6. The existence of cutaway groove 18 and the elasticity of cap portion 6 enable said rear section to curve inwards, thereby pressing forward on upper shavings removing plate 8 and lower shavings removing plate 9 connected via extending segment 10 and extending segment 13, thereby forcing the shavings outward to be removed.

Elasticity returns said rear section to its original position when pressure is released, simultaneously causing upper shavings removing plate 8 and lower shavings removing plate 9 to retract automatically, thereby delivering positive effects such as convenience of use.